

FIG. 1A

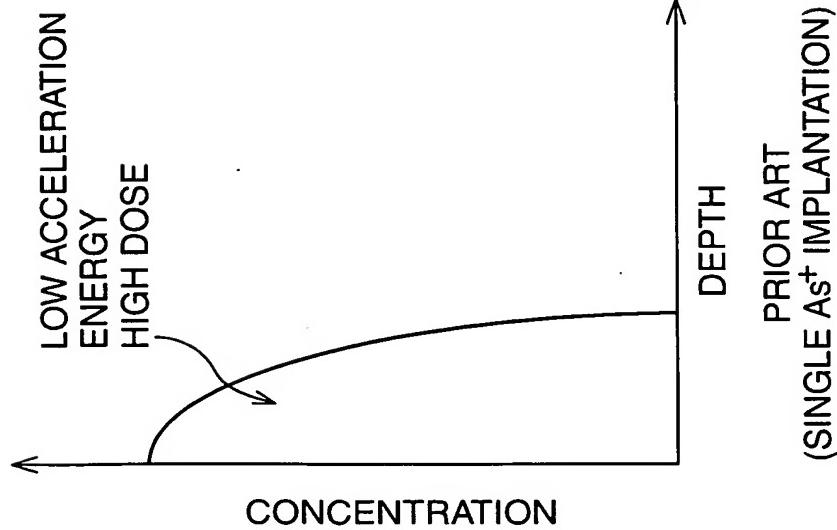


FIG. 1B

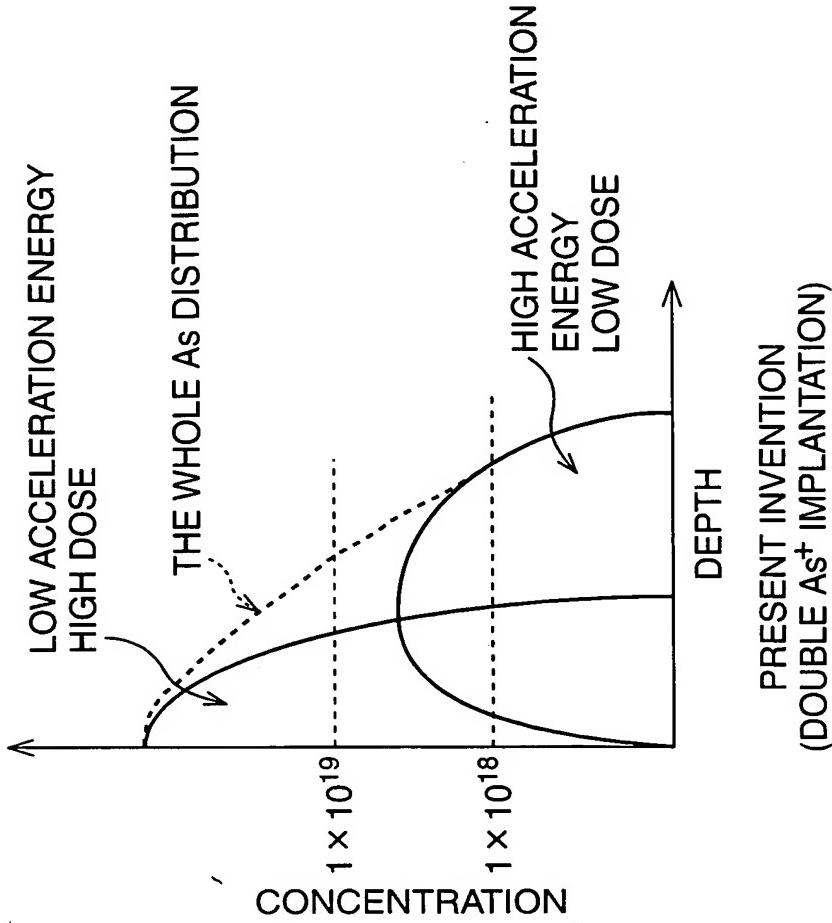
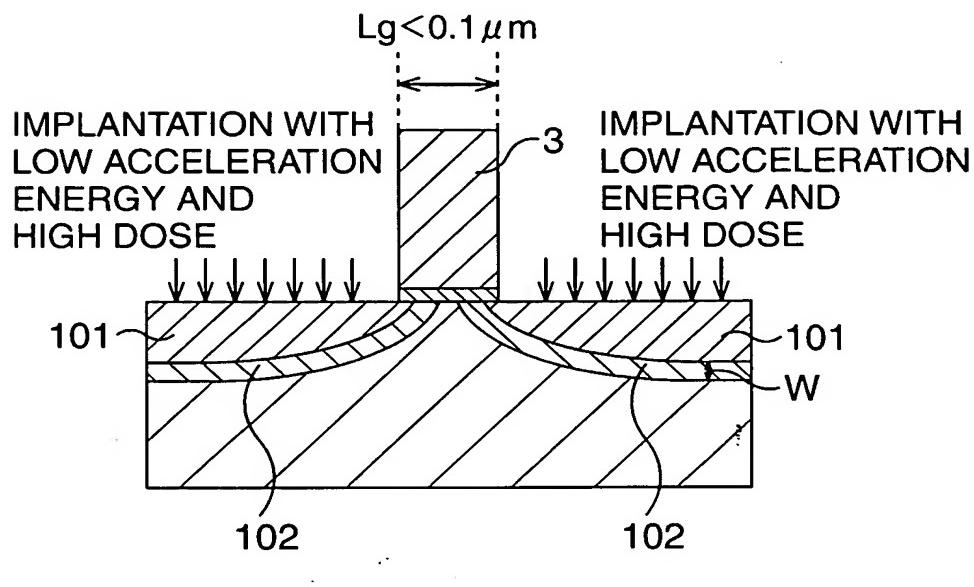
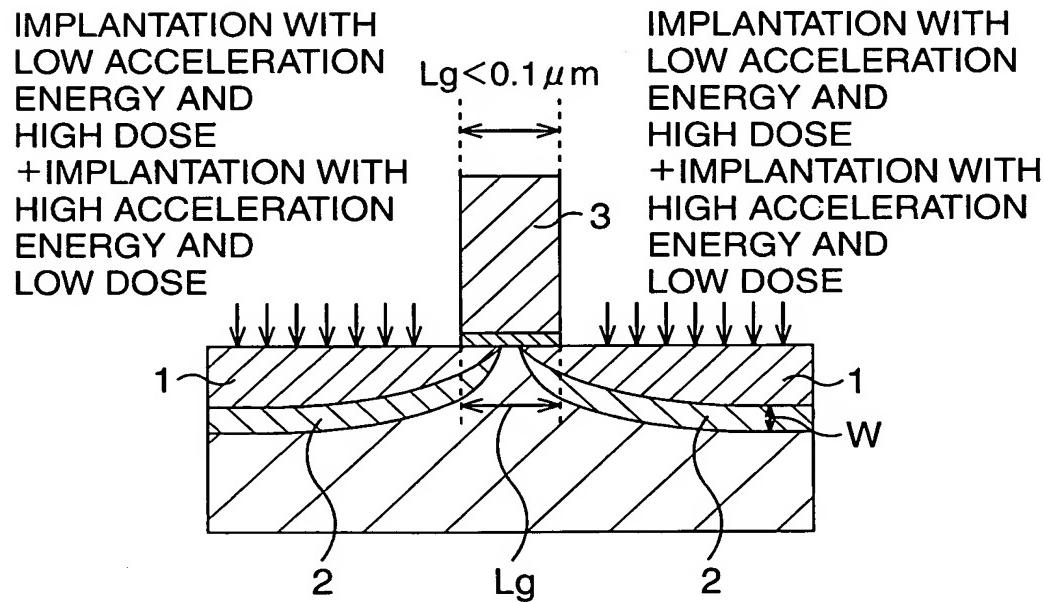


FIG. 2A



PRIOR ART

FIG. 2B



PRESENT INVENTION

FIG. 3

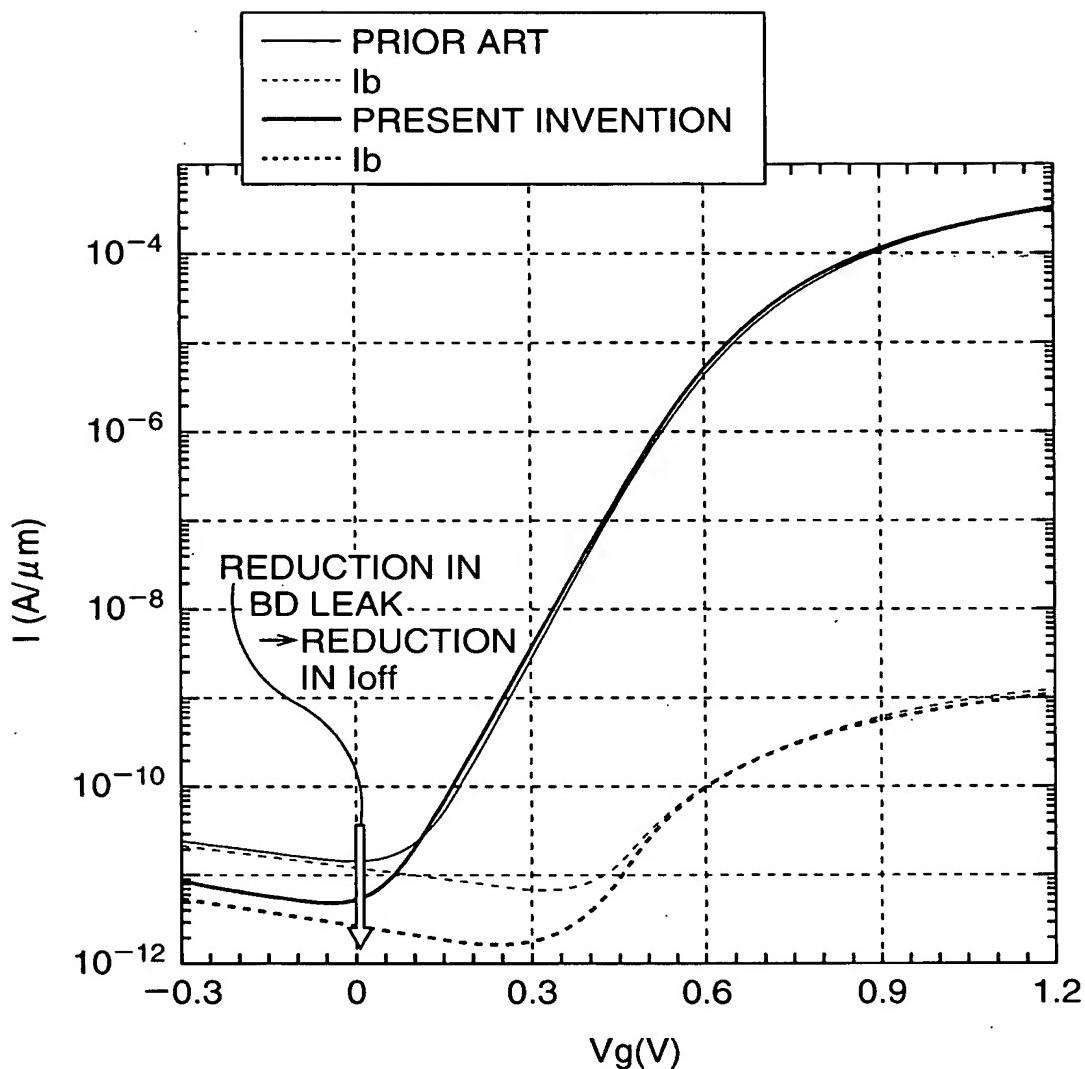


FIG. 4A

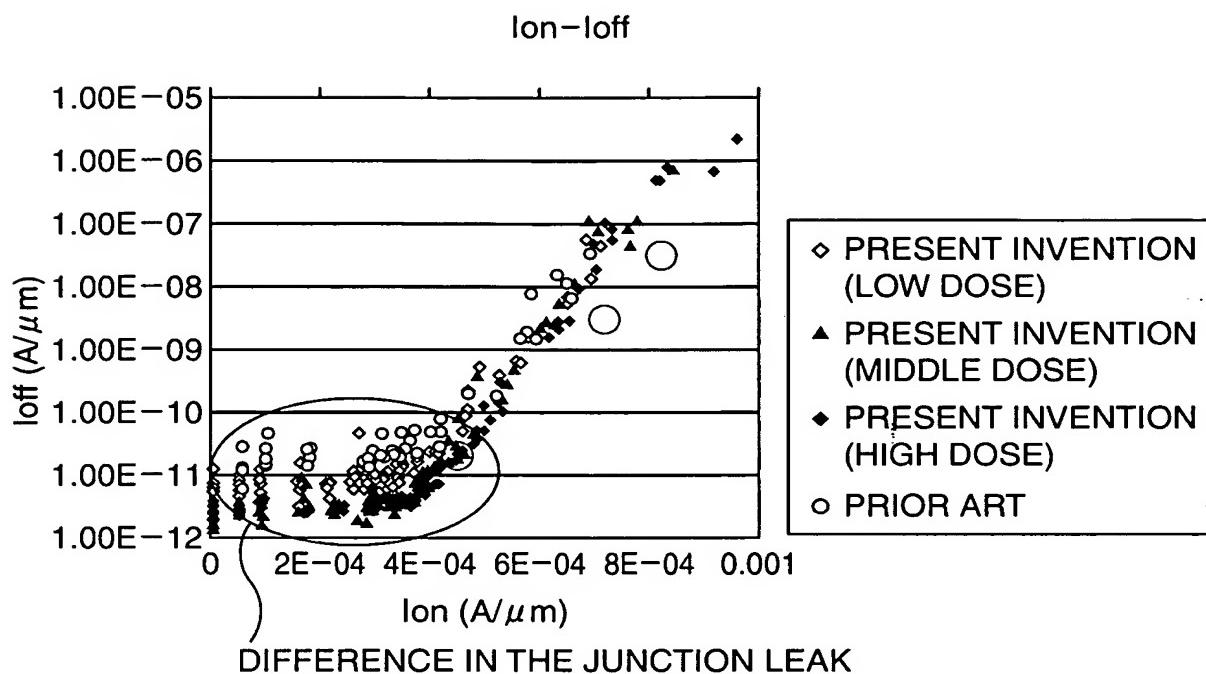


FIG. 4B

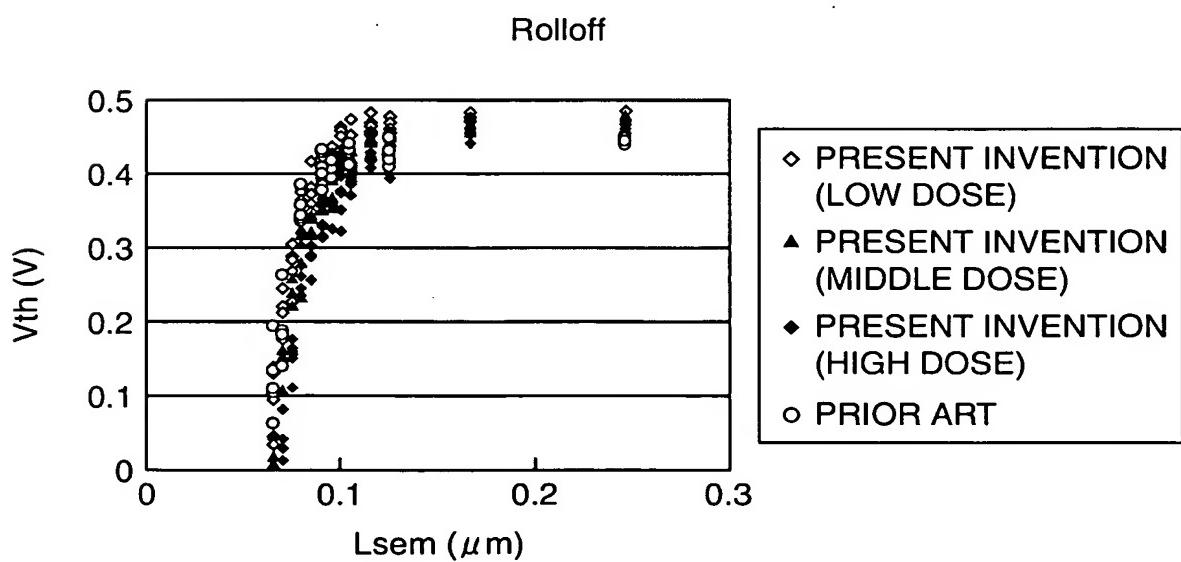


FIG. 5

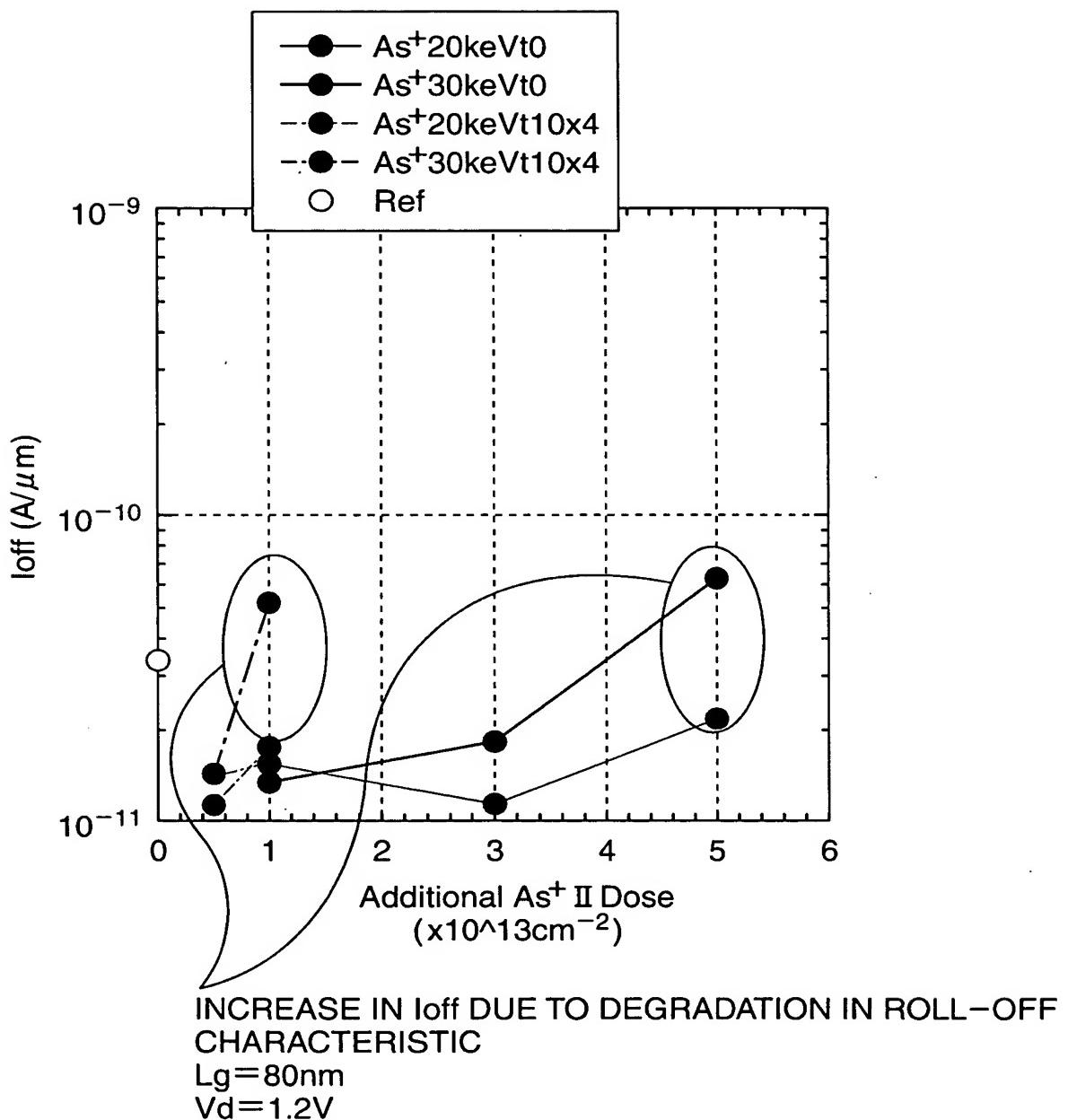


FIG. 6A

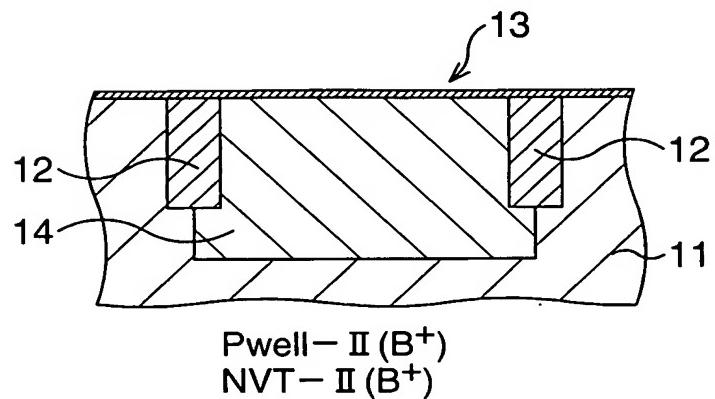


FIG. 6B

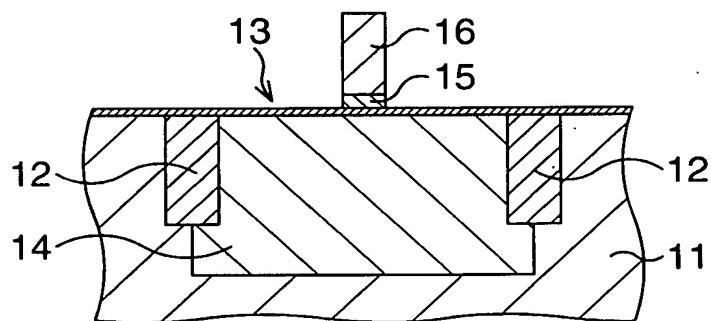


FIG. 6C

IMPLANTATION OF EXTENSION
 $As^+ 20 \sim 30 \text{ keV} 1 \sim 3e13 t_0$
 $+ As^+ 0.5 \sim 5 \text{ keV} 0.5 \sim 2.5e15 t_0$
(DOUBLE As^+ IMPLANTATION)

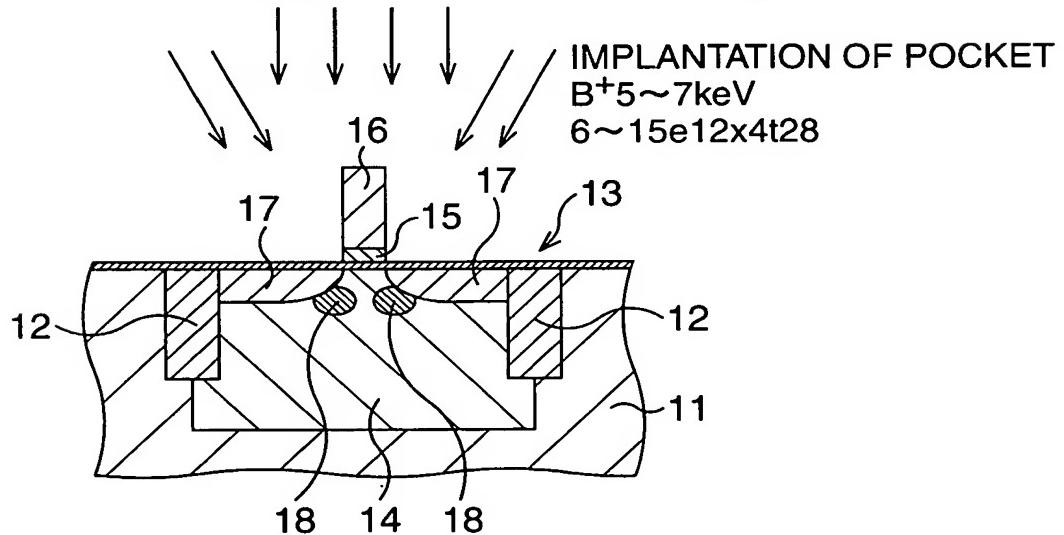


FIG. 7A

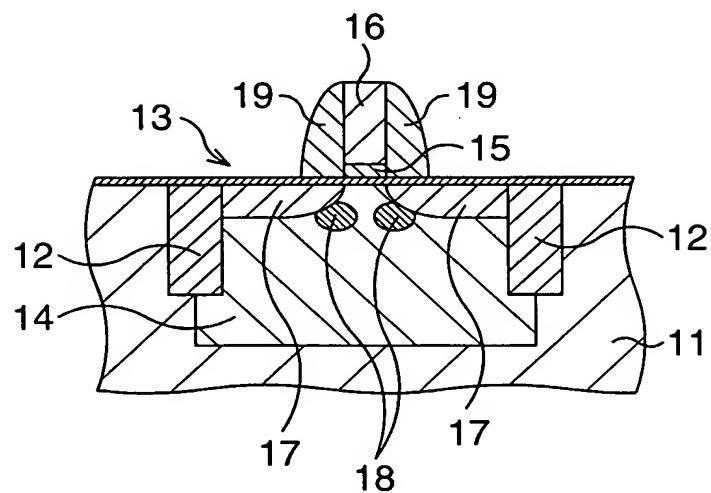


FIG. 7B

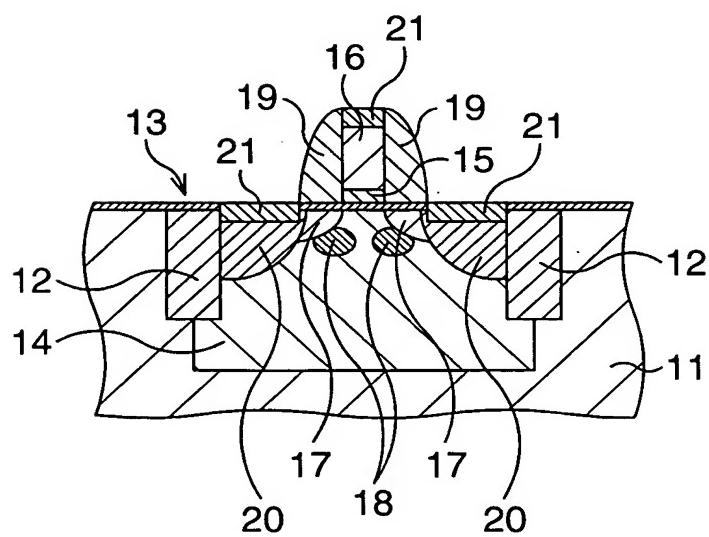


FIG. 8

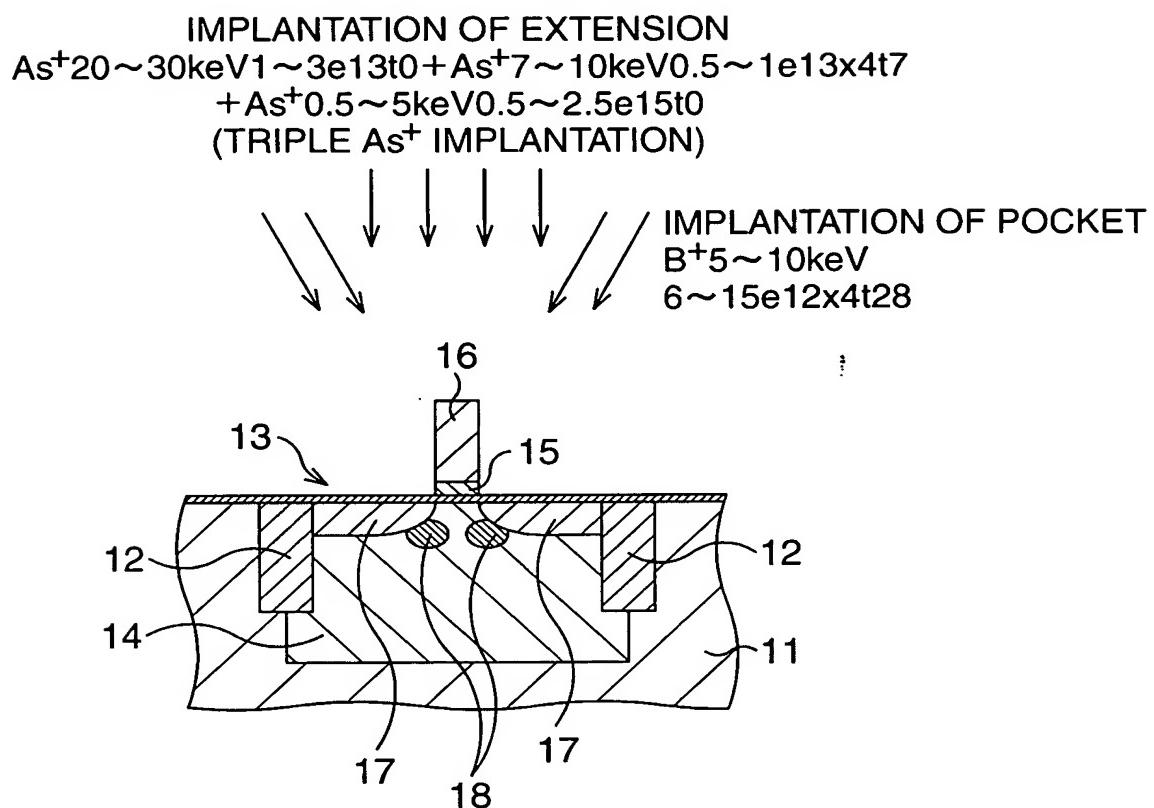


FIG. 9A

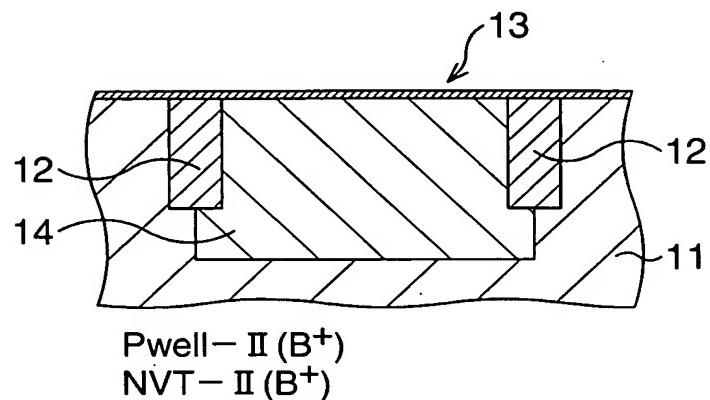


FIG. 9B

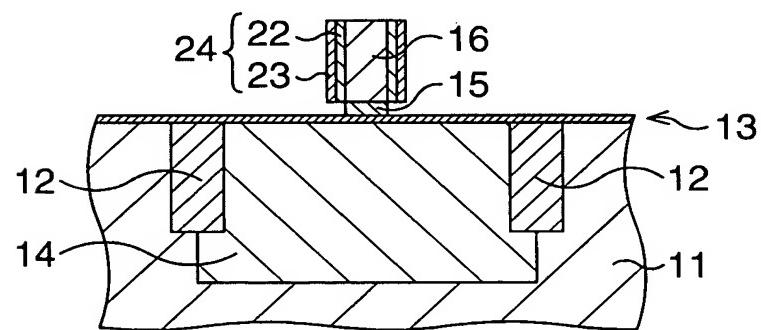


FIG. 9C

IMPLANTATION OF EXTENSION
 $\text{As}^+ 20 \sim 30 \text{keV} 1 \sim 3 \times 10^{13} \text{t0}$
 $+ \text{As}^+ 0.5 \sim 5 \text{keV} 0.5 \sim 2.5 \times 10^{15} \text{t0}$
(DOUBLE As^+ IMPLANTATION)

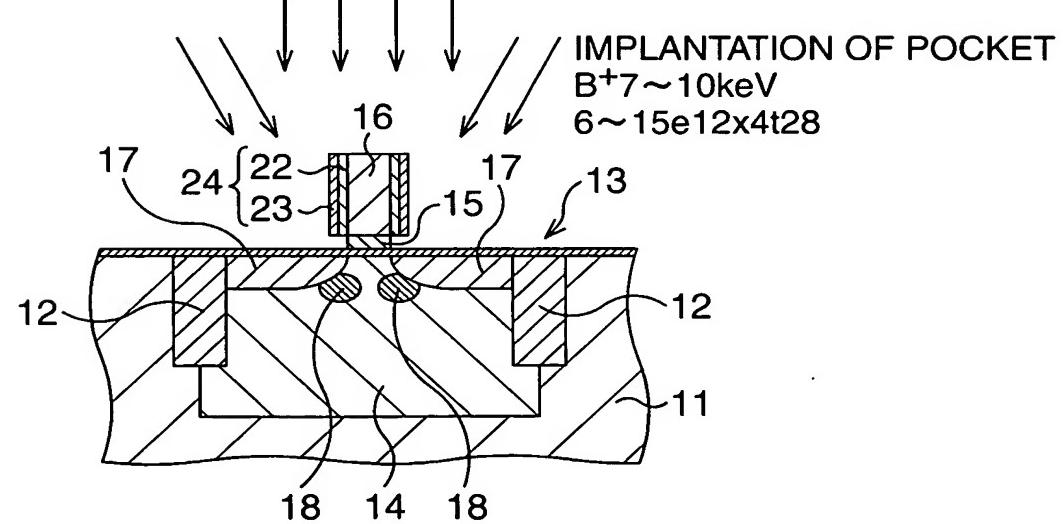


FIG. 10A

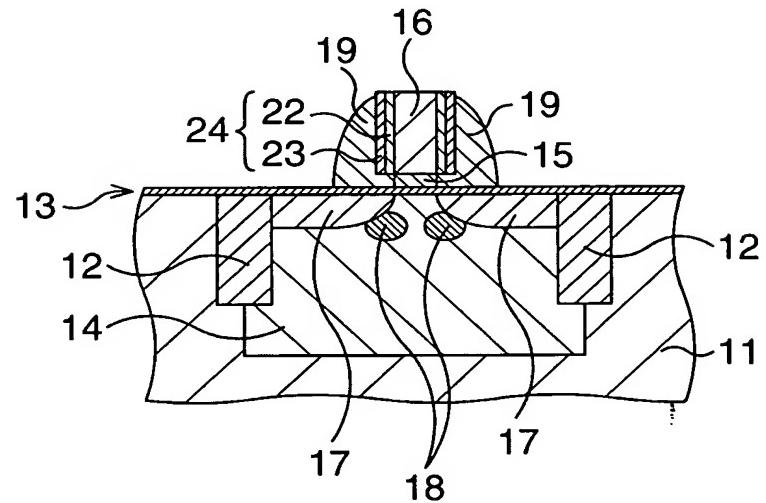


FIG. 10B

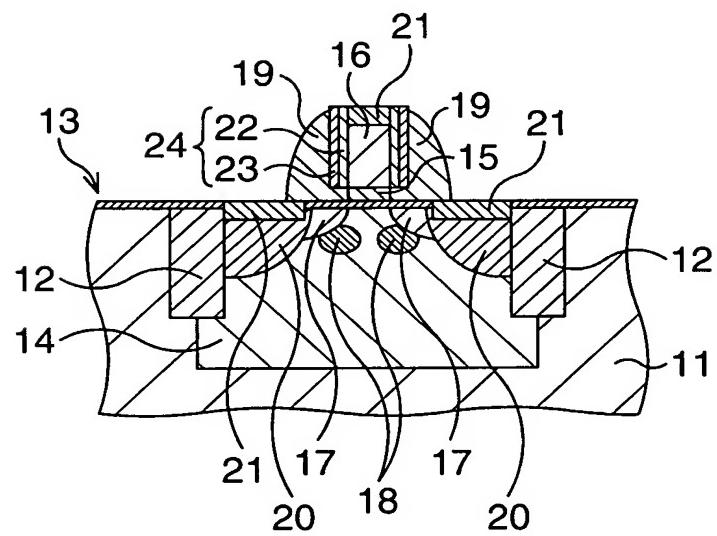
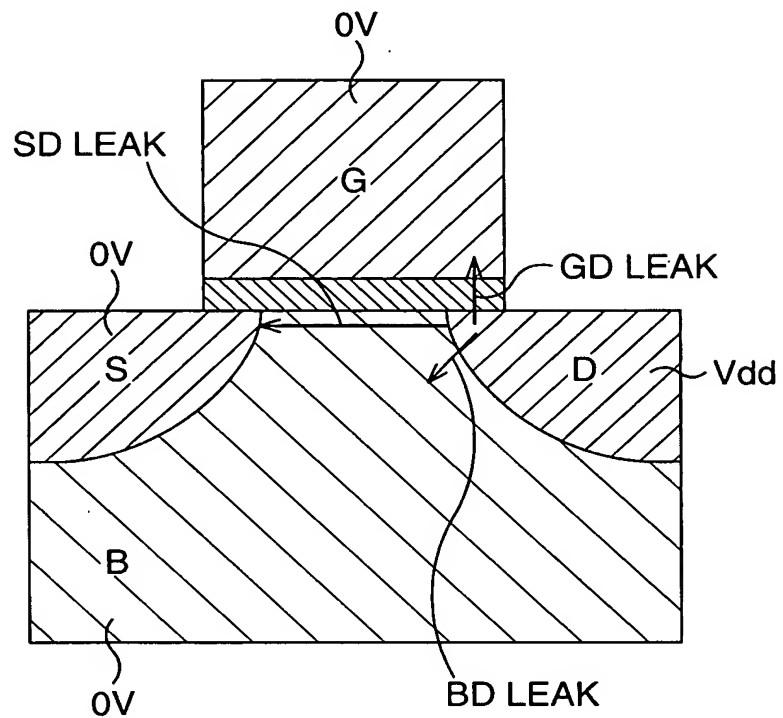


FIG. 11



$$I_{off} = GD\ LEAK + SD\ LEAK + BD\ LEAK$$

FIG. 12

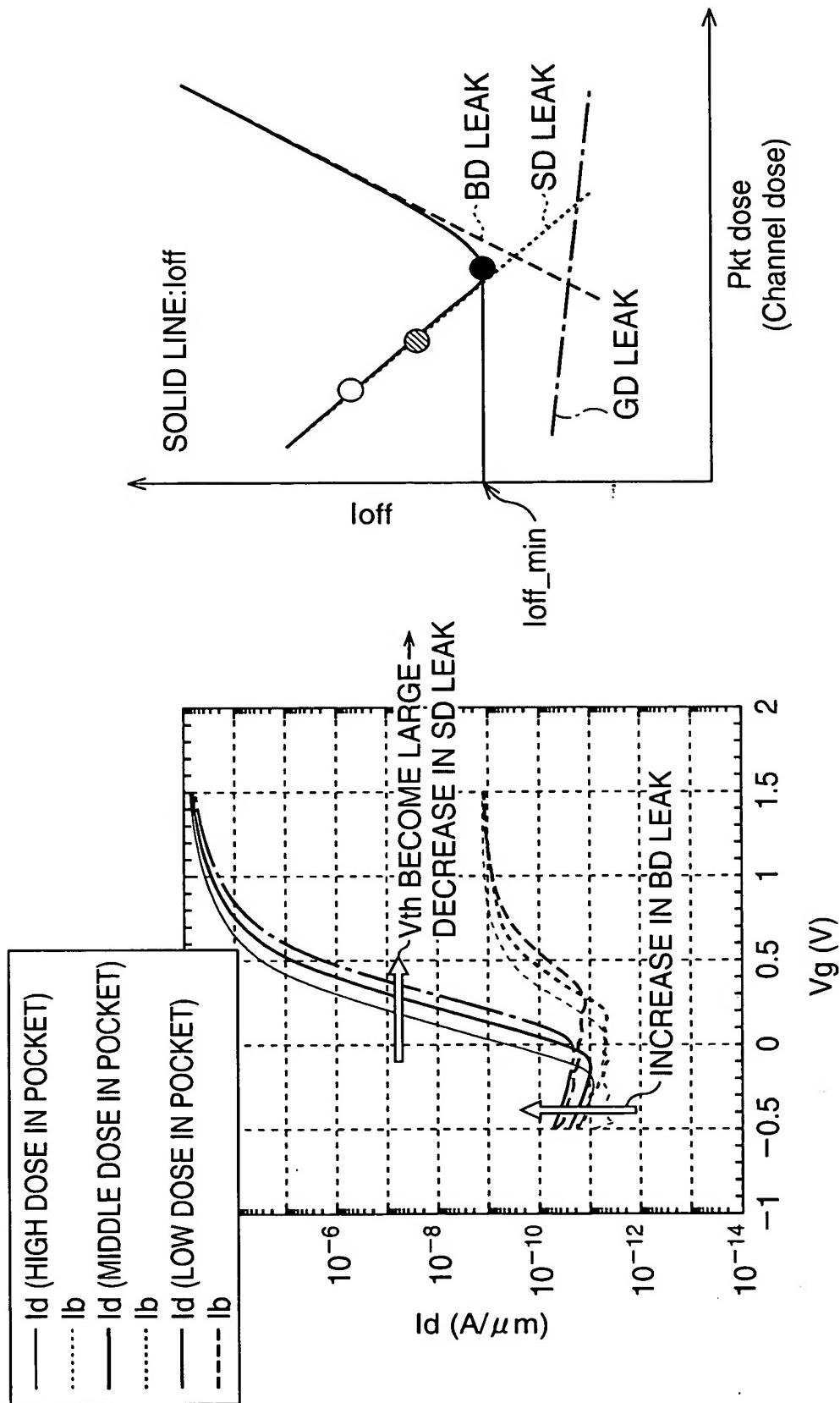


FIG. 13

